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**MARCH, 1897.**

**TRANSACTIONS**

... OF ...

**..The American..  
Microscopical Society**

Organized 1878. Incorporated 1891.

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**EDITED BY THE SECRETARY.**

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**Nineteenth Annual Meeting**

**HELD AT**

**CARNEGIE LIBRARY, PITTSBURG, PA.,**


**August 18, 19 and 20, 1896.**

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**VOLUME XVIII.**

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**BUFFALO, N. Y.  
A. T. BROWN PRINTING HOUSE,  
1897.**



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1896.

## OFFICERS FOR 1896-7.

*President* : PROFESSOR E. W. CLAYPOLE, B. SC., F. G. S. . . . . Akron, O.  
*Vice-Presidents* : C. C. MELLOR . . . . . Pittsburg, Pa.  
                   A. M. BLEILE, A. M., M. D. . . . . Columbus, O.  
*Secretary* : WILLIAM C. KRAUSS, M. D., F. R. M. S. . . . . Buffalo, N. Y.  
*Treasurer* : MAGNUS PFLAUM . . . . . Pittsburg, Pa.

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A. A. YOUNG, M. D.	Newark, N. Y.
MRS. S. P. GAGE	Ithaca, N. Y.
W. P. MANTON, M. D., F. R. M. S.	Detroit, Mich.

## PAST PRESIDENTS.

**Ex-officio members of the Executive Board.**

1. R. H. WARD, M. D., F. R. M. S., of Troy, N. Y.,  
at Indianapolis, Ind., 1878.
2. R. H. WARD, M. D., F. R. M. S., of Troy, N. Y.,  
at Buffalo, N. Y., 1879.
3. H. L. SMITH, LL. D., F. R. M. S., of Geneva, N. Y.,  
at Detroit, Mich., 1880.
4. J. D. HYATT, F. R. M. S., (absent), of New York City,  
at Columbus, O., 1881.
5. GEO. E. BLACKHAM, M. D., F. R. M. S., of Dunkirk, N. Y.,  
at Elmira, N. Y., 1882.
6. ALBERT McCALLA, PH. D., F. R. M. S., of California,  
at Chicago, Ill., 1883.
7. J. D. COX, LL. D., F. R. M. S., of Cincinnati, Ohio,  
at Rochester, N. Y., 1884.
8. H. L. SMITH, LL. D., F. R. M. S., of Geneva, N. Y.,  
at Cleveland, Ohio, 1885.
9. T. J. BURRILL, PH. D., F. R. M. S., of Champaign, Ill.,  
at Chautauqua, N. Y., 1886.
10. WM. A. ROGERS, A. M., F. R. M. S., of Waterville, Me.,  
at Pittsburg, Pa., 1887.
11. D. S. KELLICOTT, PH. D., F. R. M. S., of Columbus, Ohio,  
at Columbus, Ohio, 1888.
12. WM. J. LEWIS, M. D., F. R. M. S., of Hartford, Conn.,  
at Buffalo, N. Y., 1889.
13. GEO. E. FELL, M. D., F. R. M. S., of Buffalo, N. Y.,  
at Detroit, Mich., 1890.
14. FRANK L. JAMES, PH. D., M. D., F. R. M. S., of St. Louis, Mo.,  
at Washington, D. C., 1891.
15. MARSHALL D. EWELL, M. D., F. R. M. S., of Chicago, Ill.,  
at Rochester, N. Y., 1892.
16. JACOB D. COX, LL. D., F. R. M. S., of Cincinnati, Ohio,  
at Madison, Wis., 1893.
17. LESTER CURTIS, M. D., F. R. M. S., of Chicago, Ill.,  
at Brooklyn, N. Y., 1894.
18. SIMON HENRY GAGE, B. S., of Ithaca, N. Y.,  
at Ithaca, N. Y., 1895.
19. A. CLIFFORD MERCER, M. D., F. R. M. S., of Syracuse, N. Y.,  
at Pittsburg, Pa., 1896.

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